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(FILE 'HOME' ENTERED AT 09:47:07 ON 08 JAN 2007)

FILE 'REGISTRY' ENTERED AT 09:47:20 ON 08 JAN 2007

L1           STRUCTURE UPLOADED

L2           0 S L1

L3           4 S L1 FULL

FILE 'CAPLUS, USPATFULL, CA' ENTERED AT 09:49:02 ON 08 JAN 2007

L4           5 S L3

L5           3 DUP REM L4 (2 DUPLICATES REMOVED)

10659735

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2006:1286151 CAPLUS  
DOCUMENT NUMBER: 146:50201  
TITLE: Conjugates formed from polymer derivatives having particular atom arrangements  
INVENTOR(S): Harris, J. Milton; Kozlowski, Antoni; Mcmanus, Samuel P.; Bentley, Michael D.; Charles, Stephen A.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 58pp., Cont.-in-part of U.S. Ser. No. 851,691.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006275252	A1	20061207	US 2006-389431	20060323
US 2005009988	A1	20050113	US 2004-851691	20040521
PRIORITY APPLN. INFO.:			US 2003-473213P	P 20030523
			US 2004-851691	A2 20040521

AB Conjugates comprise water-soluble polymers, aminocarbonyl moieties, and pharmacol. active agents. Thus, a glycerol derivative of butanoic acid was treated with N,N-disuccinimidyl carbonate and polyethylene glycol monoamine to prepare a compound for conjugates.

L5 ANSWER 2 OF 3 USPATFULL on STN  
ACCESSION NUMBER: 2005:43252 USPATFULL  
TITLE: Method for preparing water-soluble polymer derivatives bearing a terminal carboxylic acid  
INVENTOR(S): Kozlowski, Antoni, Huntsville, AL, UNITED STATES

NUMBER	KIND	DATE
PATENT INFORMATION: US 2005036978	A1	20050217
APPLICATION INFO.: US 2003-659735	A1	20030909 (10)

NUMBER	DATE
PRIORITY INFORMATION: US 2002-409348P	20020909 (60)
DOCUMENT TYPE: Utility	
FILE SEGMENT: APPLICATION	
LEGAL REPRESENTATIVE: NEKTAR THERAPEUTICS, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070	
NUMBER OF CLAIMS: 85	
EXEMPLARY CLAIM: 1	
NUMBER OF DRAWINGS: 1 Drawing Page(s)	
LINE COUNT: 2782	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is provided for preparing water-soluble polymer derivatives bearing a terminal carboxylic acid or ester thereof. The method involves the hydrolyzing an ortho ester of a water-soluble polymer so as provide the corresponding acid. In addition, the invention provides water-soluble polymers bearing a terminal carboxylic acid or ester thereof, intermediates and reagents useful in carrying out the method, as well as gels, pharmaceutical formulations, conjugates related to the described water-soluble polymer derivatives.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2  
 ACCESSION NUMBER: 2004:220383 CAPLUS  
 DOCUMENT NUMBER: 140:254687  
 TITLE: Preparation of ortho esters of water-soluble polymers and their carboxylic acid-terminated derivatives  
 INVENTOR(S): Kozlowski, Antoni  
 PATENT ASSIGNEE(S): Nektar Therapeutics Al, Corporation, USA  
 SOURCE: PCT Int. Appl., 99 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004022629	A2	20040318	WO 2003-US28517	20030909
WO 2004022629	A3	20040408		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2497980	A1	20040318	CA 2003-2497980	20030909
AU 2003270555	A1	20040329	AU 2003-270555	20030909
US 2005036978	A1	20050217	US 2003-659735	20030909
EP 1537163	A2	20050608	EP 2003-752256	20030909
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005538226	T	20051215	JP 2004-534826	20030909
PRIORITY APPLN. INFO.:			US 2002-409348P	P 20020909
			WO 2003-US28517	W 20030909

AB A method is provided for prep. ortho esters of water-soluble polymers and carboxylic acid-terminated water-soluble polymers. The method involves the hydrolyzing an ortho ester of a water-soluble polymer so as provide the corresponding acid. The invention provides water-soluble polymers bearing a terminal carboxylic acid or ester thereof, intermediates and reagents useful in carrying out the method, as well as gels, pharmaceutical formulations, conjugates related to the described water-soluble polymer derivs. Thus, 10.2 g 3-methyl-3-hydroxymethyloxetane and 18.5 g 4-bromobutyryl chloride were reacted, 20.1 g of the resulting product (3-methyl-3-hydroxymethyloxetane 4-bromobutyrate) was treated with 2.5 mL boron trifluoride di-Et etherate to give 15.0 g 1-(3-bromopropyl)-4-methyl-2,6,7-trioxabicyclo[2.2.2]octane, 15.0 g of which was reacted with 120 g ethylene glycol in the presence of 70 mL 1.0 M potassium tert-butoxide tert-butanol solution to give 6.2 g precursor of polyethylene glycol butanoic acid, 0.564 g of which was used as a polymerization initiator for polyethylene glycol butanoic acid 4-methyl-2,6,7-trioxabicyclo[2.2.2]octanyl ester.